

**IN THE CLAIMS:**

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Claims 1-16. (Cancelled)

17. (Previously presented) A headlight for a vehicle, having

- a reflector having a focal point,
- a light source in the area of the focal point of the reflector, and

a transparent lens,

wherein the light source is a semiconductor light source which emits infrared radiation, and

wherein a metal cooling element is provided which is thermally connected to the light source, extends from the light source to the lens and projects into the lens or passes through it.

18. (Previously presented) A headlight according to Claim 17, wherein the cooling element extends along the center axis of the reflector.

19. (Previously presented) A headlight according to Claim 17, wherein the cooling element has an element in the form of a rod.

20. (Previously presented) A headlight according to Claim 17, wherein the cooling element has one or more essentially flat elements.

21. (Previously presented) A headlight according to Claim 20, wherein one or more flat elements are arranged running radially from the center axis.

22. (Previously presented) A headlight according to Claim 21, wherein two or more radially running flat elements are provided, and are arranged rotationally symmetrically about the center axis.

23. (Previously presented) A headlight according to Claim 21, wherein 3, 4 or 5 radially running flat elements are provided and are arranged in the form of a star.

24. (Currently amended) ~~Headlight~~ A headlight for a vehicle, having

- a reflector having a focal point,  
- a light source in the area of the focal point of the reflector, and

a transparent lens,  
wherein the light source is a semiconductor light source which emits infrared radiation, and

wherein a cooling element is provided which is thermally connected to the light source, extends from the light source to the lens and projects into the lens or passes through it according to Claim 17, wherein the cooling element is designed to be partially or completely mirrored.

25. (Currntly amended) A headlight according to Claim 17, wherein the cooling element is composed of metal, ~~in particular~~

aluminum ~~aluminium~~, copper, silver, iron or an alloy using such metals.

26. (Currently amended) A headlight for a vehicle, having

- a reflector having a focal point,

- a light source in the area of the focal point of the reflector, and

a transparent lens,

wherein the light source is a semiconductor light source which emits infrared radiation, and

wherein a cooling element is provided which is thermally connected to the light source, extends from the light source to the lens and projects into the lens or passes through it  
~~according to Claim 17, wherein the cooling element is sealed from the lens by means of an elastic, in particular permanently elastic, sealing agent, in particular composed of silicone rubber.~~

27. (Previously presented) A headlight according to Claim 17, wherein the cooling element is not the same color as the reflector.

28. (Previously presented) A headlight according to Claim 17, wherein the cooling element does not project, or projects only insignificantly, beyond the lens.

29. (Currently amended) A headlight for a vehicle, having

- a reflector having a focal point,

- a light source in the area of the focal point of the reflector, and

a transparent lens,  
wherein the light source is a semiconductor light source  
which emits infrared radiation, and  
wherein a cooling element is provided which is thermally  
connected to the light source, extends from the light source to  
the lens and projects into the lens or passes through it  
according to Claim 28 wherein the cooling element does not  
project, or projects only insignificantly, beyond the lens, and  
wherein a flat heat sink, in particular in the form of a disc,  
is arranged on the side of the lens which faces away from the  
light source and is thermally connected to the cooling element.

30. (Previously presented) A headlight according to Claim 17,  
wherein the light source represents an array comprising two or  
more individual light sources, which is arranged on a mount and  
whose mount is thermally conductively connected to the cooling  
element.

31. (Previously presented) A headlight according to Claim 20,  
wherein two or more flat elements are mechanically connected to  
the reflector.

32. (Currently amended) A headlight for a vehicle, having  
- a reflector having a focal point,  
- a light source in the area of the focal point of the  
reflector, and  
a transparent lens,  
wherein the light source is a semiconductor light source  
which emits infrared radiation, and

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wherein a cooling element is provided which is thermally connected to the light source, extends from the light source to the lens and projects into the lens or passes through it  
~~according to Claim 17,~~ wherein the power supply for the light source is provided via the cooling element.